

# COMPUTER NEWSLETTER

FROM

HEWLETT-PACKARD CO.

FOR

LLNL COMPUTER USERS

OCTOBER 1981

FOR ADDITIONAL INFORMATION CONTACT :

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## WELCOME TO OUR FIRST NEWSLETTER!

This newsletter is generated exclusively for Lawrence Livermore National Laboratory. The purpose of this newsletter is to keep the computer users informed of new products, price changes, seminars, product shows, etc., from Hewlett-Packard. If you have ideas to make this more valuable to you, please let us know.

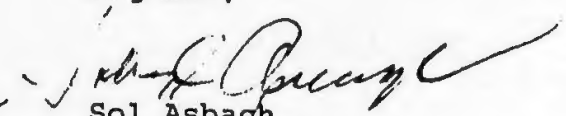
In keeping with the purpose of this newsletter, we have some special news for you. An HP, factory-supported desktop users group is being organized in LLNL. Our first meeting is being scheduled for early December. Contact HP if you:

- A) Want to be involved in the organizational effort
- B) Want to participate in the meeting
- C) Have ideas as to what technical demonstrations the factory can present
- D) All of the above

Remember that this group will be for LLNL and by LLNL so that you can become more productive with your desktop computers. HP factory and field resources will be there to help in whatever way you ask.

Other news that may be of interest are price changes effective October 1st. These include certain HP 1000 items, some have increased, some have decreased. There are too many to be listed here. Please contact me or HP's Order Processing at (408)988-7123 for the new pricing information.

Regards,

  
Sol Asbagh  
Computer Sales Representative  
(408) 988-7141

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## GENERAL NEWS

### COMPUTER GRAPHICS AND TERMINAL OPEN HOUSE!

Hewlett-Packard invites you to attend an Engineering and Business Graphics Open House. You are welcome to stop by anytime on our scheduled dates for a personal demonstration of Hewlett-Packard computers and terminals for business, scientific, engineering and color graphics applications. Some of the equipment on display will include:

- HP9845B Desktop Computer
- HP9845C Desktop Computer with Color Graphics
- HP2647A Intelligent Graphics Terminal
- HP9826 Desktop Computer
- HP7580A Drafting Plotter
- HP9872C Multi-color Graphics Plotter
- HP9111A Graphics Tablet
- HP9876A Thermal Printer
- HP2624A Display Terminal

HP system engineers and sales representatives will be there to give you a personal demonstration and answer all your questions on all these and more HP products.

The time for the Open Houses are from 10:00 a.m. to 4:00 p.m. and the dates are as follows:

October 15, 1981  
Hewlett-Packard Co.  
3003 Scott Blvd.  
Santa Clara, CA

November 18, 1981  
Hewlett-Packard Co.  
3200 Hillview Avenue  
Palo Alto, CA

December 10, 1981  
Marriott Hotel  
Santa Clara, CA

For further details, please contact your sales representative.

### HP BREAKS INTO TELEVISION

Starting in September, Hewlett-Packard will air five different 30-second commercials on the ABC television network.

HP will run 18 commercials during the fall during "Monday Night Football," "NCAA Football," and the "ABC Nightline" news show.

### 1981 DATAPRO SURVEY RESULTS

The 1981 Datapro Survey results are in and HP's performance is the best it's been to date. A significant factor in these improved results is HP's support.

HP is a definite winner in the 1981 Datapro Survey from an overall satisfaction and support standpoint.

HP systems comprised two or three of the top three ratings in any category.

## HP1000 COMPUTERS

### USE OF HARD DISC WITH HP1000 L-SERIES MODEL 5

To increase speed and storage requirements of the L-Series Model 5, many of you will want to incorporate a hard disc. Best performance of this hard disc interfacing with L-Series Model 5 will be realized when its interface card, the 12009A HP-IB card, is allocated the highest priority by placing it in the top I/O slot of the card cage (just below the CPU and memory).

If the same HP-IB card is to be used as the flexible disc drive interface, a long HP-IB ribbon connector (P/N 8120-3396) will be required to connect the HP-IB card and the flexible disc controller card which must be at the bottom of the I/O card stack. The Model 5 and a hard disc make a great combination.

### NEW PSI CARDS PROVIDE THE USER WITH CUSTOM INTERFACE CAPABILITY

The Programmable Serial Interface (PSI) card set has been introduced for those technically sophisticated customers who would like to program HP interfaces in order to connect HP1000's to other devices using non-HP protocols.

Some of the PSI card features include:

1. Choice of sync or async, full or half duplex, RS232 or 449, and a wide variety range of baud rates.
2. 16Kb available for user programmable EPROM/ROM.
3. 16Kb of RAM for downloading of code or message buffering.
4. Developmental Debug Monitor.

HP provides the customer with necessary documentation to understand the unique programming characteristics of the Programmable Serial Interface Card.

### 16 SLOT L-SERIES MICROCOMPUTER BOX

HP1000 specials engineering group has made available a 16-slot, box-level, L-Series microcomputer, product 2103L-H01, which provides a 16-slot version of the 10-slot 2103L microcomputer.

Option H01 takes the prerequisite 2103L, substitutes a 16-slot 12031A card cage, and adds an appropriate box, fans, front panel, and all box level characteristics. Opt. H01 is \$1,850 extra for the first unit and \$1,490 extra for additional units on the same purchase order.

## DS/1000-IV MEMORY REQUIREMENTS FOR RTE-XL

The estimated memory requirements for both a disc-based and a memory-based RTE-XL operating system are summarized as follows:

MEMORY BASED RTE-XL: A minimal DS/1000-IV subsystem requires at least 80Kb of memory (Note: this estimate does not include operating system size or user program requirements). A more typical case is the memory requirement for a full capability DS/1000-IV subsystem which is at least 190Kb.

DISC-BASED RTE-XL: A minimal DS/1000-IV subsystem requires at least 60Kb of memory (Note: this estimate does not include operating system size or user program requirements). For better performance, a system would require at least 108Kb of memory in most applications.

## DESKTOP COMPUTERS

### HP 9845 UPGRADE KITS

Two new upgrade kits are now available for the HP9845B to achieve all of the 9845B Model 200's performance enhancements and features.

The HP98405A consists of the new bit-slice Language Processing Unit and the new high-performance monochromatic display. With this kit installed, you will achieve a three to six times performance improvement in computational and graphics programs. What's more, you can take advantage of the many new features of the display.

The HP98404A is the Model 200's new display. It can be installed in any 9845B that has already been upgraded with the new bit-slice processor (98403A).

Below is a summary of the upgrade kits now available for the 9845B/C:

| <u>Product</u> | <u>Description</u>                          | <u>Limitations</u> | <u>US Price</u> |
|----------------|---|--------------------|-----------------|
| 98403A         | Bit-slice Processor                         | none               | \$ 7,000        |
| 98404A         | Enhanced Display                            | with 98403A only   | 8,000           |
| Opt. 775       | Light Pen                                   |                    | 1,575           |
| 98405A         | Bit-slice Processor<br>and enhanced display | 9845B only         | 14,000          |
| Opt. 775       | Light Pen                                   |                    | 1,575           |
| 98771A         | Color Display                               | 9845B only         | 19,500          |

These kits may be installed at the customer site by HP service personnel.



### HP9826A PASCAL IS COMING!

More than just the Pascal language was implemented in the new 9826A Desktop Computer/Controller; this product also includes a new operating environment. Desktop users will now deal directly with editor, compiler and assembler systems programs, the Motorola 68000 assembly language, and some details of the 9826A hardware and systems programming.

### HP9826 DATA COMMUNICATIONS

The HP9826 now has data communications capability, including smart ASYNCH and DATA LINK. The smart ASYNCH capabilities are similar to those of the 98046B, with software handshaking, full modem control time outs and buffered transfers. The HP DATA LINK allows slave desktop computers to be connected to a master HP1000 using a multidrop connection scheme having high noise immunity.

### HP9845 CAMERA ATTACHMENT A WINNER

A hit at SIGGRAPH '81 in Dallas, Texas, was the HP98777A camera attachment which is priced at \$1,050.

Visitors were impressed with the ease with which the camera attachment is mounted. The 98777A's compatibility with most 35mm cameras or the Polaroid CU-5 camera and gelatin filters was well-received, but the high-light was the automatic barrel-distortion correction provided by the hardware.

### HP 9826A CARRYING CASE

Many customers have requested a carrying case for transporting the new HP9826A Computer. The 9826 will fit in a standard fiberglass transit case, although a minor amount of foam cutting may be needed.

Order the case (P/N9211-2662), through the normal parts ordering channel. A wheel kit (P/N1490-0913) can be added for easy transport.

This case is well suited to applications requiring air transport, or vehicle transport over rough roads.

## TERMINALS

### THE NEW HP2624B DISPLAY TERMINAL

The HP2624B is the newest member of the 262X family of Data Terminals. The HP2624B replaces the 2624A and is a features superset of the 2624A at the same price.

The 2624B combines Forms Cache and Multipoint Data Communications with the advanced data entry features of the 2624A to provide a powerful data entry terminal. Additionally, Terminal Bypass Mode and the Record Mode greatly enhance the hardcopy capabilities of the 2624B. The 2624B is also ideally suited for data retrieval and program development.

### HP2647A APPLICATION RESOURCE PACS AVAILABLE

Application Resource Pacs are libraries of BASIC language application programs that execute on the HP2647A.

Each Pac contains one or more individual programs; a documentation tape containing user instructions for each program (except Math Pac); a printed copy of the documentation tape, and a Quick Reference Guide. Four Pacs are available:

Graphics Presentation Pac—13257B (\$195)  
Project Management Resource Pac—13257F (\$195)  
Statistical Analysis Resource Pac—13257D (\$195)  
Mathematical Analysis Resource Pac—13257C (\$195)

Please contact your sales representative for more information.



## PERIPHERALS

### FOR THE FIRST TIME. . . ONE PRODUCT THAT SATISFIES ALL PERIPHERAL STORAGE REQUIREMENTS!

HP is excited to announce the arrival of the HP7908 Disc/Tape Drive. The 7908 is Hewlett-Packard's lowest priced disc product, incorporating a 16Mb Winchester disc for mass storage and a 1/4-inch cartridge tape drive for personal I/O and back-up.

The 7908 consists of:

1. A Winchester technology disc drive (includes the intelligent controller) yielding 16Mb of formatted user storage.
2. A streaming-mode cartridge tape drive capable of storing up to 67Mb on a single cartridge.

The controller can manage data transfers from disc-to-tape (back-up) and tape-to-disc (restore) without CPU intervention. With a data transfer rate of 2Mb per minute, the entire contents of the disc can be backed-up in less than 10 minutes.

The 7908 presents an excellent opportunity for HP system users to save thousands of dollars when configuring their system with complete peripheral storage capabilities.

### HP7910 and HP2613A OBSOLESCENCE

With the introduction of the 7908, which is intended to replace the 7910, current plans are to obsolete the 7910 by December 31, 1981.

The 2613A printer will also be obsoleted as of November 1, 1981.

If you have any concerns or questions, contact your sales representative.

### HP2601A PRICE REDUCTION

Effective August 11, 1981, the price of the HP2601A was reduced from \$4,500 to \$3,950!

### PAPER CATCHER TO BE INCLUDED WITH HP263X PEDESTAL

Effective October 1, 1981, a paper catcher will be included with all printer stands for the HP263X family. This is done because most orders for the printer stand (about 90%) included requests for the paper catcher option and paper handling is much more convenient when the catcher is installed.

COMING UP NEXT MONTH:

- o HP 125      Personal Business Computer/Terminal System  
with CP/M Operating System, Visicalc and  
much more.
  
- o HP 1000      17 new products and enhancements to make it  
an incredibly powerful 16-bit minicomputer:
  - RTE-6/VM Operating system with expanded code  
space, virtual memory, shared discs and more.
  - New low cost/high performance Winchester Disc  
Drives with integral mag tape for back-up and  
user I/O.
  - Fortran 77 - a full implementation of the  
ANSI standard PLUS HP's own enhancements.
  - High density/lower price memory.

AND MUCH MORE!!!